

Date: Wed, 20 Jan 93 10:09:50 PST  
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>  
Errors-To: Info-Hams-Errors@UCSD.Edu  
Reply-To: Info-Hams@UCSD.Edu  
Precedence: Bulk  
Subject: Info-Hams Digest V93 #84  
To: Info-Hams

Info-Hams Digest                      Wed, 20 Jan 93                      Volume 93 : Issue    84

Today's Topics:

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                                     Format of Code Exams?  
                                      help needed  
                                     Log-Yagis  
                                     Microwave tube data  
                                     Motorola Module info?  
                                     PC repeater controllers  
                                     Radio/Satellite Tracking  
                                     Radios at Disneyland  
                                     Real Hams  
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                                     SWR-sampling lines; info required.  
Taking apart interior trim of '88 Nova for a UHF/VHF ham antenna..  
                                     Transmitting 50-178 & 300-512?  
                                     Undocumented C558 functions ?!  
                                     Voice mail "repeaters"  
                                     What's a Neper?  
                                     What Amateur Radio books should a library have?  
                                     Yaesu FT-736R

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>  
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available  
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text  
herein consists of personal comments and does not represent the official  
policies or positions of any party. Your mileage may vary. So there.

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Date: 20 Jan 93 16:01:43 GMT  
From: haven.umd.edu!decuac!pa.dec.com!engage.pko.dec.com!nntpd.lkg.dec.com!  
kbi004.lmo.dec.com!eustace@ames.arpa  
Subject: \*\*\*\*\*

To: info-hams@ucsd.edu

I have a 193?, (I think it's a 1937, I left the manual at home),  
Hammerlund Radio, it's original speaker, accessories, and the  
original documentation/owners manual.

It works fine, I live near Worcester Mass., and I was able to  
get Radio Tokyo.

If interested make an offer!

I can be reached at the address above or,

Joe Eustace  
13 Newton Street  
Auburn, Mass. 01501-2625  
(508) 791-3224 (evenings)

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Date: 20 Jan 1993 11:25 EDT  
From: usc!howland.reston.ans.net!spool.mu.edu!agate!usenet.ins.cwru.edu!eagle!  
venus.lerc.nasa.gov!nmr1248@network.UCSD.EDU  
Subject: Format of Code Exams?  
To: info-hams@ucsd.edu

In article <8y89wB1w165w@jackatak.raider.net>, martinbw@jackatak.raider.net (Bruce  
Martin) writes...

>jahern@geohub.gcn.uoknor.edu (Jud Ahern) writes:

>

>> I'm studying up for my Extra code exam, and got to wondering: Is the  
>> exam multiple-choice or fill-in-the-blank? The FCC Rule Book says  
>> the format is up to the VEs, but what is the norm? Does it depend  
>> on whether the VE group is ARRL or W5YI, etc.? I'd think the  
>> multiple choice would be MUCH easier, no? Naturally, I plan to be  
>> at the point where it won't make any difference, but it is helpful  
>> to know what to expect when going into an exam.

>>

Your best bet is just ask the VEs which ones they give. I know of one  
VE group here that only gives fill in the blank because that's all  
they want to give. They think the multiple-choice is too easy. Another  
VE group gives the multiple choice ones. I believe both are ARRL VE  
groups. So the FCC Rule Book is right when it says that its up to the  
VE team to decide on what they want to give.

Nancy Rabel	nmr1248@venus.lerc.nasa.gov
Space Station Freedom	--... --- -- -.. . KC4IYD
NASA - Lewis Research Center	stamp collector, SF addict

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Date: 20 Jan 93 03:13:22 GMT  
From: news.mtholyoke.edu!mhc.mtholyoke.edu!wvogel@uunet.uu.net  
Subject: help needed  
To: info-hams@ucsd.edu

i recently purchased a YAESU FYG-3U uhf ht but unfortunately it came without  
any paperwork or a charger  
can anyone on the net help me with any info for this radio?  
anything anyone would have would be greatly appreciated

will gladly pay copying and mailing costs if any involved

wvogel@mtholyoke.edu

1 xmtr shy of a station  
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Date: 20 Jan 93 16:03:22 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: Log-Yagis  
To: info-hams@ucsd.edu

In the Radio Handbook (Willian I. Orr, 20th Edition), a PL Yagi for 50 MHz is  
described. It is reported that this antenna combines the bandwidth of a log-pe  
riodic antenna and the gain of a Yagi in a notably shorter boom. It is compo  
sed of an active log-periodic part and some parasitic directors.

I'd be glad if someone could give some references on how to design these kind  
of antennas and calculate its characteristics.

Thanks in advance.

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Eduardo Garcia-Lopez

Telefonica I+D	! E-mail: edgar@tid.es
Division 2510	! Tel: +34 1 337 4894
C/Emilio Vargas, 6	! Fax: +34 1 337 4222
E-28043 Madrid Spain	

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Date: 20 Jan 93 15:34:13 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: Microwave tube data  
To: info-hams@ucsd.edu

Hello out there!

I have been thinking of trying a little QRO on microwaves. I have in a local junkbox found what appears to be a magnetron. From the size of the waveguide connection it is probably for 9 or hopefully a 10 GHz. However I have no magnet and no data on the tube. The magnet will not be any big problem if I just can find out the strength. The tube has a boat anchor symbol on it and the letters US. I suppose that the symbol stands for US-navy. The manufacturer is: Western Electric, and the type number is: JAN-725A.

Is there anyone who could help me find some data on this tube or pointing me in the direction of where some operating data for the tube can be found. All my efforts in chasing data sheets has so far not resulted in anything. You dear fellow ham's are the last but not least source of information I try. By the way, the tube must be from the fifties or so, I think.

Answers via email is preferred, I check my email almost every day.

Best 73's from Peter Rojssel (SM7LEK),  
<Peter@maxlab.lu.se> and cu on the bands.

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Date: Wed, 20 Jan 1993 15:35:16 GMT  
From: yuma!longs.LANCE.ColoState.Edu!gw214790@purdue.edu  
Subject: Motorola Module info?  
To: info-hams@ucsd.edu

I have a few Motorola RF amp modules, but no info to find on them. They are marked:

M ----- the Motorola "M"  
SHW151  
111

It has seven leads and a heat sink mounting flange. Anybody got any info on this?

Galen Watts, KF0YJ

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Date: 20 Jan 93 15:18:00 GMT

From: news-mail-gateway@ucsd.edu  
Subject: PC repeater controllers  
To: info-hams@ucsd.edu

Politically Correct Repeater Controllers?!?

One can just imagine some of the features =:-0

73, Erich

-----  
Date: Wed, 20 Jan 1993 15:54:24 GMT  
From: swrinde!gatech!emory!kd4nc!ke4zv!gary@network.UCSD.EDU  
Subject: Radio/Satellite Tracking  
To: info-hams@ucsd.edu

In article <9301181210.aa09774@ingate.microsoft.COM> a-kevinp@microsoft.COM (Kevin Purcell, Rho) writes:

>  
>This system is inexpensive (far less so than satellite) and has better  
>coverage than cellular (imagine loosing your truck in Wyoming!).  
>Similar systems have been used to do remote waether observations,  
>snowpack depth, animal tracking in remote parts of canada. Recently  
>they demonstrated voice telephone over a digital MS link (average  
>throughput of 9600 baud, but is very bursty).  
>  
>This is the sort of thing interested amateurs could do. Need to define  
>a protocol based around AX25 and a fast modem standard.  
>  
>72/73 Kevin, N7WIM / G8UDP  
>a-kevinp@microsoft.com  
>  
>Any hams doing

There's a W0 named Ralph, he's an AMSAT mover and shaker, who has done experiments with this system. A friend of mine in Indianapolis and I have talked about setting up a 6 meter packet system and just pinging away to test the idea, but nothing has come of it as yet. It's certainly possible, since both the government and private industry are doing it. And the equipment requirements are modest, 100 watts on 6 with a 3 element beam should work nicely. Six appears to be the best amateur band for this work due to the length and density of the average meteor trail. At 2 meters, many of the trails aren't dense enough, and at 10 meters many are too short.

Date: 20 Jan 93 17:34:53 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: Radios at Disneyland  
To: info-hams@ucsd.edu

>> >Does anyone know if there is any problem with using handytalkies  
>> >while visiting Disneyland? My XYL and I were thinking of using them to  
>> >keep track of each other when we go down later this year.  
>>  
>>There are no such restrictions. In fact, those of us with the  
>>Disneyland Amateur Radio Club invite you to make use of the local  
>>repeater. It's mounted on the roof of one of the towers of the  
>>Disneyland Hotel on 146.94 (input -600KHz, PL 131.8). Use the repeater  
>>as needed, or use simplex within the park when possible. Disneyland  
>>asks that you not use the radios when riding on rides (for obvious  
>>reasons), and keep the volume down when in the restaurants out of  
>>courtesy to the other guests.

In my last visit I found there ARE restrictions!

I was refused admittance to the park because I had one of those "radio things " (IC-32AT) in my jacket pocket. I tried to tell the security people about amateur radio and the Disney ARC, but it fell on deaf ears. Their overwhelming concern was that I was listening to THEIR radio transmissions, and those transmissions were THEIR property.

I finally gave up and put my HT in my car and returned to the park.

--  
Michael  
Internet mbothe@netcom.com  
AMPRnet mike@mac.kb6owt

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Date: 20 Jan 93 15:02:04 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: Real Hams  
To: info-hams@ucsd.edu

<Anomaly System Administration - netmail!root@anomaly.sbs.com writes>

> > So how do you know I'm not an extra too?  
> No-codes don't have the cranial capacity to understand what is  
> required to become an extra.  
BZZZZZZZZT! Wrong Answer! The byzantine licensing and administrative management of the Amateur Radio Service and the pack of crazed souls

like the writer have conspired to give lots of potentially good hams the idea that all the work required to learn Morse at 5/13/20wpm would be wasted, and that Ham Radio didn't have enough to offer to justify that expenditure of effort. So, newcomers stayed away in droves. Finally, after much hassle and horsesh\*t from already licensed hams, we get a break and find an entry-level mechanism that gives people a taste of the hobby without the need for code.

I say: BRAVO! We can grow again. There is hope for continued life on teh Ham Bands. I teach (so that I might learn) and have found the best students, with greatest motivation are the Code-Free Technician ops who have tasted and want to upgrade. Is CW a barrier? NO! Every No-Code that attended my classes and went to the local VE Testing Session, upgraded. All of them! I am proud to have been a help to these fine Hams, all of whom have open minds, and a great deal more cranial capacity (to say nothing of having more gray matter inside to absorb learning) than the flaming writer.

> No doubt you're one of those no-codes who memorized the question  
> pools using the Radio Shack handbook, and probably can't even  
> pass the Novice exam again if you wanted to.

And you, "MD", are probably too new at the hobby to recall the huge numbers of Extra Class tickets given to undeserving(?) folks who likewise used the materials of Dick Bash, memorizing the FCC answers and passing exams without a clue as to even the questions, let alone the answers. In the 1950's people with tickets used to bitch and whine about all the "kids and lids" who just memorized the ARRL License Manual to get their ticket.

Whatever the study method or technical competence of the Ham, I am glad to see the hobby growing again, and I congratulate all the No-Codes who were patient and waited until the FCC (and many Hams) came to their senses and took down the barriers to joining the fun.

And, not that it matters much, but I \*do\* hold an extra class, I was licensed first in 1956 at age 14, and I have enough cranial capacity and gray matter for a new idea or two, but no room available for narrow and bigoted views such as you spew forth, whether your tongue is in cheek or not.

73

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| Jack GF Hill      Voice: (615)459-2636  root@jackatak.raidernet.com |  
| P. O. Box 1685    modem: (615)377-5980  Compu$erve 76427,31 |  
| Brentwood, TN 37024 Bicycling and SCUBA Diving Ham Call: W4PPT |  
+-----+
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Date: Wed, 20 Jan 1993 17:50:10 GMT  
From: usc!cs.utexas.edu!convex!tonyp@network.UCSD.EDU  
Subject: running 300-ohm twinlead thru wood  
To: info-hams@ucsd.edu

You can run coax cable pretty much anywhere you like.

What about 300-ohm twinlead?

There are wooden French doors from the shack to the outside world.

The twinlead would fit between them and would require no modification to the wood (read: drilling).

How is the wave-flow going to be affected at the point when the feed goes thru the door - like a kink in a garden hose?

Even RickityShack says in their FM antenna manual to use standoffs and twist the wire 3 turns per yard.

--  
Tony J. Podrasky | What's this thing?  
San Diego , Ca | It's called a MODEM.  
tonyp@convex.com | And what's this button for?  
WA2EAA NNNN ZCZC | Whatever you do, don't touc{{{7bh6xx!{@%%hxbd&\$#)\$% NO  
CARRIER

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Date: Wed, 20 Jan 1993 16:40:07 GMT  
From: swrinde!gatech!emory!kd4nc!ke4zv!gary@network.UCSD.EDU  
Subject: SWR-sampling lines; info required.  
To: info-hams@ucsd.edu

In article <26649.9301191646@swwmis.nsw.ac.uk> pjml@swwmis.nerc-swindon.ac.UK (Pete Lucas) writes:

>  
>I am planning to build a SWR sampling line using copper plumbing fittings;  
>somewhere i remember seeing a statement that the line should be less than  
>about 0.1 wavelength. Since my line will have to operate over something like  
>a 10:1 frequency range, theres a problem: If i make the line long enough to  
>get adequate sensitivity at low frequencies, it will be more than 0.1  
>wavelength long at the highest frequency.  
>  
>Question: Is the 0.1 wavelength rule correct? Or am I barking up the  
>wrong watermelon?

The thruline section can be arbitrarily long if it's of a constant



impedance that matches the system being measured. The \*sampling\* line, however, must be short with respect to a wavelength to give accurate results. That's why Bird wattmeters have interchangeable slugs. Each slug has it's own sampler for the particular frequency range to be measured. Power calibration is done by varying the spacing of the sampler section from the inner conductor of the thru line section. So, yes, you have to keep the sampling section short with respect to frequency, and you have to vary the spacing with respect to expected power levels.

Gary

--

Gary Coffman KE4ZV		You make it,		gatech!wa4mei!ke4zv!gary
Destructive Testing Systems		we break it.		uunet!rsiatl!ke4zv!gary
534 Shannon Way		Guaranteed!		emory!kd4nc!ke4zv!gary
Lawrenceville, GA 30244				

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Date: Wed, 20 Jan 1993 16:11:57 GMT

From: swrinde!gatech!emory!kd4nc!ke4zv!gary@network.UCSD.EDU

Subject: Taking apart interior trim of '88 Nova for a UHF/VHF ham antenna..

To: info-hams@ucsd.edu

In article <SOMMERFELD.93Jan19164237@unknown.apollo.hp.com>  
sommerfeld@apollo.hp.com (Bill Sommerfeld) writes:

>

>I'm looking for tips/hints/etc on removing the plastic internal window  
>mouldings and similar internal trim from an '88 Chevy Nova (which a  
>'87 Toyota Corolla clone). There are no visible screw heads; I  
>suspect that they're held on via some sort of spring clips, but I have  
>no idea where or what or how to pry to get them off, and what sorts of  
>specialized tools might be necessary. I've seen them removed (when my  
>windshield was replaced a year ago) but I wasn't paying all that much  
>attention at the time..

There are three general ways interior trim is held in place. The first is with screws. The second is with spring clips that require a special sheetmetal tool to release. And the third, and increasingly popular, way is with plastic compression studs. These just push through a hole and expand to hold. To remove them, you just jerk sharply on the trim and it pops off. (Sometimes the studs break if it's an older car that's cooked in the sun too long making the plastic brittle.) Plus there is a final way that's gaining popularity, that's glue. Consult an experienced body man to find the methods used on your car.

Gary

--

Gary Coffman KE4ZV		You make it,		gatech!wa4mei!ke4zv!gary
Destructive Testing Systems		we break it.		uunet!rsiatl!ke4zv!gary
534 Shannon Way		Guaranteed!		emory!kd4nc!ke4zv!gary
Lawrenceville, GA 30244				

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Date: Wed, 20 Jan 1993 16:32:55 GMT  
From: swrinde!gatech!emory!kd4nc!ke4zv!gary@network.UCSD.EDU  
Subject: Transmitting 50-178 & 300-512?  
To: info-hams@ucsd.edu

In article <1993Jan19.174420.25445@ms.uky.edu> johnr@mik.uky.edu writes:  
>I have this friend who has a radio modified to transmit from 50-178 and  
>300-512. It is a Kenwood TH78a and I was wondering if he risks damaging his  
>radio by transmitting on these frequencies since the radio is designed for  
>144-148 and 438-450 transmit and receive. Is the rubber duck suitable for  
>this. He also has a Diamond magmount antenna which he could use with the  
>radio if performance would be better. I was just wondering what type of  
>performance he can expect from his radio and antenna choices.

Since rubber ducks are so subject to being mangled, most HTs will  
tolerate transmitting into a short or open, at least for a while.  
The only things in danger are your friend's bank account and freedom  
since what he's doing is highly illegal.

Gary

--

Gary Coffman KE4ZV		You make it,		gatech!wa4mei!ke4zv!gary
Destructive Testing Systems		we break it.		uunet!rsiatl!ke4zv!gary
534 Shannon Way		Guaranteed!		emory!kd4nc!ke4zv!gary
Lawrenceville, GA 30244				

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Date: 19 Jan 93 21:04:04 GMT  
From: uchinews!kimbark!gary@rsch.wisc.edu  
Subject: Undocumented C558 functions ?!  
To: info-hams@ucsd.edu

The C558A(American) version has rx to about 950Mhz out of the box,  
AM rx and 2m rx to about 200Mhz. Ext tx requires a diode insert.

Gary

--

Gary Buchholz / KE9ZM                      Internet: gary@midway.uchicago.edu

University of Chicago                      Packet:    KE9ZM@N9HSI.IL.USA.NA  
Academic and Public Computing  
1155 East 60'th St., Chicago, Ill.    (312) 702-7611

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Date: Wed, 20 Jan 1993 16:33:06 GMT  
From: sdd.hp.com!hpscit.sc.hp.com!cupnews0.cup.hp.com!news1.boi.hp.com!  
swalton@network.UCSD.EDU  
Subject: Voice mail "repeaters"  
To: info-hams@ucsd.edu

Addendum:

I forgot to mention that I am developing this around a Sound Blaster card.  
This is mostly software (a DTMF interface has to be built), so what I am  
offering is the compiled code (and schematics). The Sound Blaster has  
several versions, but the voice mail system will NOT use any special  
feature. Therefore, the cheapest card can be used.

-Sean Walton  
KB7RFA

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Date: Mon, 18 Jan 1993 17:48:05 GMT  
From: usc!sdd.hp.com!hpscit.sc.hp.com!hplextra!hpcc05!hplds!a!  
brunob@network.UCSD.EDU  
Subject: What's a Neper?  
To: info-hams@ucsd.edu

Hi,  
Just a note to take you out of agony ..... Neper is the name for natural  
constant " e ". Decibell is normally exprest in dB based on Log 10.  
However in same scientific notations we use Neperian dB based on Log e.  
To convert from dB to Nepers, multilply by 0.1151.

from the log of AA6AD

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Date: 20 Jan 93 12:25:56 GMT  
From: usc!cs.utexas.edu!uwm.edu!spool.mu.edu!yale.edu!newsserver.jvnc.net!  
netnews.upenn.edu!prijat!triangle.cs.uofs.edu!bill@network.UCSD.EDU  
Subject: What Amateur Radio books should a library have?  
To: info-hams@ucsd.edu

What about The Radio Handbook by Bill Orr (W6SAI)?? And does anyone know

if he has revised it again lately??

bill KB3YV

--

```
Bill Gunshannon      | "There are no evil thoughts, Mr. Reardon" Francisco  
bill@cs.uofs.edu     | said softly, "except one; the refusal to think."  
                     | #include <std disclaimer.h>
```

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Date: 19 Jan 93 15:25:04 GMT  
From: swrinde!zaphod.mps.ohio-state.edu!uwm.edu!biosci!ucselx!crash!orbit!pnet51!  
hudson@network.UCSD.EDU  
Subject: Yaesu FT-736R  
To: info-hams@ucsd.edu

Does anyone out there have a Yaesu FT-736R?

Love it?

Hate it?

inquiring mind what to know.

Also anybody have and tips on how to get "extended receive"?

UUCP: {crash tcnet}!orbit!pnet51!hudson  
INET: hudson@pnet51.orb.mn.org  
ICBM: Lat. 44.59 x lon. 93.13  
HAM: NONMX 444.100 repeater  
Advertisement: Try the Railway Post Office BBS (612) 377-2197 a Railfan BBS

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Date: (null)  
From: (null)  
Gary

--

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Gary Coffman KE4ZV      | You make it,      | gatech!wa4mei!ke4zv!gary  
Destructive Testing Systems | we break it.      | uunet!rsiatl!ke4zv!gary  
534 Shannon Way         | Guaranteed!       | emory!kd4nc!ke4zv!gary  
Lawrenceville, GA 30244  |                    |
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End of Info-Hams Digest V93 #84

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